NP007 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): David Meltzer Group Art Unit: 2817

Serial No.: 10/733,094 Examiner: Michael B. Shingleton

Filed: December 11, 2003 Confirmation No.: 9145

Title: Temperature Compensation for a Variable Frequency Oscillator without

Reducing Pull Range

TERMINAL DISCLAIMER AND CERTIFICATE UNDER 37 CFR §3.73(b)

Sir:

Your petitioner, Seiko Epson Corporation, a corporation duly organized under the laws of Japan, having a principal office at 3-5, Owa 3-chome, Suwa-shi, Nagano-ken, 392-8502 Japan, and duly represented by the undersigned, represents that it is the assignee of the full title and interest in and to the above-identified application, Serial No. 10/733,094 filed December 11, 2003, as evidenced by the deed of Assignment recorded on August 11, 2004, at Reel 015018, Frame(s) 0495, in parent application Serial No. 10/733,094.

Your petitioner hereby disclaims the terminal part if any, of any patent granted on the above-identified application which would extend beyond the expiration date of the full statutory term of any U.S. patent issuing from application Serial No. 10/733,143, filed on or about the 11th day of December 2003, and hereby agrees that any patent so granted on the above-identified application shall be enforceable only for and during such period that the legal title to said patent shall be the same as the legal title to any U.S. patent issuing from application Serial No. 10/733,143, this agreement to run with any patent granted on the above-identified application and to be binding upon the grantee, its successors or assigns.

Your petitioner does not disclaim any terminal part of any patent granted on the above-identified application prior to the expiration date of the full statutory term of any U.S. patent issuing from application Serial No. 10/733,143, in the event that subsequent hereto any U.S. patent issuing from application Serial No. 10/733,143, expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is the subject of any disclaimer under 37 CFR §1.321(a), has all claims canceled by a reexamination certificate or is otherwise terminated prior to the expiration of its statutory term as presently shortened by any terminal disclaimer.

Petitioner is the assignee of the entire interest in and to the above-identified application, as evidenced by the assignment recorded on August 11, 2004, at Reel 015018, Frame(s) 0414, a copy of which is attached to this disclaimer.

For submissions on behalf of Seiko Epson Corporation, the undersigned, whose title is supplied below, is empowered to act on behalf of the Petitioner

Date: June 27, 2006

By: /Rosalio Haro/

Rosalio Haro

Registration No. 42,633

Epson Research and Development, Inc. Intellectual Property Department 150 River Oaks Parkway, Suite 225 San Jose, CA 95134 Customer No. 20178

Phone: (408) 952-6000 Facsimile: (408) 954-9058



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS



Washington, D.C. 20231

AUGUST 23, 2004

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EPSON RESEARCH DEVELOPMENT, INC. ROSALIO HARO INTELLECTUAL PROPERTY DEPARTMENT 150 RIVER OAKS PARKWAY, SUITE 225 SAN JOSE, CA 95134

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/11/2004 REEL/FRAME: 015018/0495 NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). DOCKET NUMBER: NP007

ASSIGNOR:

EPSON RESEARCH AND DEVELOPMENT, DOC DATE: 08/10/2004 INC.

ASSIGNEE:

SEIKO EPSON CORPORATION
4-1 NISHISHINJUKU 2-CHOME,
SHINJUKU-KU
TOKYO, JAPAN

SERIAL NUMBER: 10733094 FILING DATE: 12/11/2003

PATENT NUMBER: ISSUE DATE:

TITLE: TEMPERATURE COMPENSATION FOR A VARIABLE FREQUENCY OSCILLATOR

WITHOUT REDUCING PULL RANGE

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015018/0495 PAGE 2

STEVEN POST, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

00/11/2004 700104258

Form PTO-1595

U.S. Department of Commerce Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

NP007

To The Commissioner of Patents and Trademarks: Plea	se record the attached original document or copy thereof	
Name of conveying party(ies): Epson Research and Development, Inc. 150 River Oaks Parkway, Suite 225 San Jose, CA 95134 Additional name(s) of conveying party(ies) attached? Yes ⊠ No 3. Nature of Conveyance: ☑ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: August 10, 2004	 Name and address of receiving party(ies): Name: Seiko Epson Corporation Internal Address: Street Address: 4-1 Nishishinjuku 2-Chome, Shinjuku-ka Tokyo, Japan Additional name(s) and addresses attached?	u,
 4. Application number(s) or patent number(s): If this document is being filed together with a new s A. Patent Application No(s). 10/733,094 Additional numbers 5. Name and address of party to whom 	B. Patent No(s). attached? Yes No 6. Total number of applications and patents involved.	ved:
6. Name and address of party to whom correspondence concerning document should be mailed: Intellectual Property Department Epson Research and Development, Inc. 150 River Oaks Parkway, Suite 225 San Jose, CA 95134 Customer No. 20178	7. Total fee (37 CFR 3.41)\$40.00	<u></u>
DO NOT US	SE THIS SPACE	
9 Statement and signature:	g information is true and correct and any copy is a tru Date: 08/11/04	ue copy

ASSIGNMENT Corporate

EPSON RESEARCH AND DEVELOPMENT, INC., a California Corporation, having a principal place of business at 150 River Oaks Parkway, Suite 225, San Jose, California 95134 (hereafter the "Assignor"), is the owner by respective Assignment of United States Patent Application identified below (hereafter sometimes called the "Patent Application").

SEIKO EPSON CORPORATION, a corporation of Japan, having a place of business at 4-1 Nishishinjuku 2-chome, Shinjuku-ku Tokyo, Japan (hereafter the "Assignee"), desires to acquire all of the rights to the Patent Application and all inventions described and claimed therein.

THEREFORE, in consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to it, Assignor hereby sells and assigns to the Assignee the entire right, title and interest in and to the Patent Application identified below, and all inventions described and claimed therein, in any and all Letters Patent therefor, and in any and all reissues, extensions, renewals, reexaminations, divisions and continuations of such applications or Letters Patent to the full end of the term or terms for which such Letters Patent issue, such entire right, title and interest to be held and enjoyed by the abovenamed Assignee the same as they would have been held and enjoyed by the Assignor had this Assignment and sale not been made.

ERD Case No.	<u>U.S.Serial</u> <u>No</u> .	<u>U. S. Filing</u> <u>Date</u>	$\underline{ ext{Title}}$
NP007	10/733,094	December 11, 2003	Temperature Compensation for a Variable Frequency Oscillator without Reducing Pull Range

By its undersigned representative, the Assignor agrees

- a. to execute all papers necessary in connection with the Patent Application and any continuing, divisional, reissue, reexamination or corresponding application thereof and also to execute a separate Assignment in connection with such application as the Assignee may deem necessary or expedient;
- b. to execute all papers necessary in connection with any interference which may be declared concerning the Patent Application or any continuation, division, reissue or reexamination thereof and to cooperate with

the Assignee in every way possible in obtaining evidence and going forward with such interference; and

to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee on the Patent Application and on any continuation, division, reissue or reexamination of the Patent Application.

The Assignor hereby covenants that it has the full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict therewith.

EPSON RESEARCH AND DEVELOPMENT, INC., a California Corporation, certifies that it is the Assignee of the entire right, title and interest in the Patent Application identified above by virtue of Assignment from the inventor(s) of the Patent Application identified above. The Assignment is recorded in the Patent and Trademark Office as identified below.

<u>ERD</u> Case No.	<u>U. S. Serial</u> <u>No.</u>	Assignment Execution Date(s)	<u>Reel</u>	<u>Frame</u>
NP007	10/733,094	December 5, 2003	014817	0811

The undersigned is empowered to sign this certificate on behalf of the Assignor.

IN WITNESS WHEREOF, executed by the Assignor's undersigned representative on the date following the undersigned's name.

EPSON RESEARCH AND DEVELOPMENT, INC.
Tunichi Okada
Junichi Okada
President
Aug. /10/04
Dete

By:

UNITED STATES DEPARTMENT OF COMMERCE Patient and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231



AUGUST 23, 2004

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EPSON RESEARCH AND DEVELOPMENT, INC. ROSALIO HARO INTELLECTUAL PROPERTY DEPARTMENT 150 RIVER OAKS PARKWAY, SUITE 225 SAN JOSE, CA 95134

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RECORDATION DATE: 08/11/2004

REEL/FRAME: 015018/0414 NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

EPSON RESEARCH AND DEVELOPMENT, DOC DATE: 08/10/2004 INC.

ASSIGNEE:

SEIKO EPSON CORPORATION
4-1 NISHISHINJUKU 2-CHOME,
SHINJUKU-KU
TOKYO, JAPAN

SERIAL NUMBER: 10733143 FILING DATE: 12/11/2003

PATENT NUMBER: ISSUE DATE:

TITLE: TEMPERATURE COMPENSATION CIRCUIT

015018/0414 PAGE 2

TONYA LEE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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Form PTO-1595

RECORDATION FORM COVER SHEET PATENTS ONLY

U.S. Department of Commerce Patent and Trademark Office

NP006

\$40.00 192746 10733143

To The Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof. Name and address of receiving party(ies): Name of conveying party(ies): 1. Epson Research and Development, Inc. Name: Seiko Epson Corporation 150 River Oaks Parkway, Suite 225 Internal Address: San Jose, CA 95134 Street Address: 4-1 Nishishinjuku 2-Chome, Shinjuhu-ku, Additional name(s) of conveying party(ies) attached? Tokyo, Japan ☐ Yes \boxtimes No 3. Nature of Conveyance: Additional name(s) and addresses attached? 🗌 Yes 🔯 No Assignment ☐ Change of Name Security Agreement Other Execution Date: August 10, 2004 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: B. Patent No(s). A. Patent Application No(s). 10/733,143 Additional numbers attached?

Yes

No 6. Total number of applications and patents involved: 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41).....\$40.00 Intellectual Property Department Epson Research and Development, Inc. ☐ Enclosed 150 River Oaks Parkway, Suite 225 Authorized to be charged to deposit account. San Jose, CA 95134 Customer No. 20178 8. Deposit Account Number: 19-2746 DO NOT USE THIS SPACE 9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and any copy is a true copy of the original document. Date: 08/11/04 Rosalio Haro Registration No. 42,633 Total number of pages including cover sheet, attachments and document: 3

ASSIGNMENT

Corporate

EPSON RESEARCH AND DEVELOPMENT, INC., a California Corporation, having a principal place of business at 150 River Oaks Parkway, Suite 225, San Jose, California 95134 (hereafter the "Assignor"), is the owner by respective Assignment of United States Patent Application identified below (hereafter sometimes called the "Patent Application").

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ERD Case No.	<u>U. S. Serial</u> <u>No</u> .	<u>U. S. Filing</u> <u>Date</u>	$\underline{ ext{Title}}$
NP006	10/733,143	December 11, 2003	Temperature Compensation Circuit

By its undersigned representative, the Assignor agrees

- a. to execute all papers necessary in connection with the Patent Application and any continuing, divisional, reissue, reexamination or corresponding application thereof and also to execute a separate Assignment in connection with such application as the Assignee may deem necessary or expedient;
- b. to execute all papers necessary in connection with any interference which may be declared concerning the Patent Application or any continuation, division, reissue or reexamination thereof and to cooperate with

the Assignee in every way possible in obtaining evidence and going forward with such interference; and

c. to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee on the Patent Application and on any continuation, division, reissue or reexamination of the Patent Application.

The Assignor hereby covenants that it has the full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict therewith.

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<u>ERD</u> Case No.	<u>U.S.Serial</u> <u>No.</u>	Assignment Execution Date(s)	<u>Reel</u>	<u>Frame</u>
NP006	10/733,143	December 3, 2003	014800	0081

The undersigned is empowered to sign this certificate on behalf of the Assignor.

IN WITNESS WHEREOF, executed by the Assignor's undersigned representative on the date following the undersigned's name.

EPSON RESEARCH AND DEVELOPMENT, INC.

ng./10/04

By:

NP006

Junichi Okada

President

Date